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	Application No.	Applicant(s)	
Notice of Allowability	09/896,165	YOSHII ET AL.	
	Examiner	Art Unit	
	HOAN C. NGUYEN	2871	
The MAILING DATE of this communication at All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOL NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATEN of the Office or upon petition by the applicant. See 37 CFR 1	S IS (OR REMAINS) CLOSED in thit -85) or other appropriate communic T RIGHTS. This application is subj	is application. If not include cation will be mailed in due	ed course. <b>THIS</b>
<ol> <li>This communication is responsive to</li> <li>The allowed claim(s) is/are <u>1-16</u>.</li> <li>The drawings filed on <u>19 April 2000</u> are accepted by the drawings filed on a claim for foreign priority a) All Bome* All Bome* All Bome* Bome*</li></ol>		f).	
1. Certified copies of the priority documents	have been received		
2. Certified copies of the priority documents		Jo	
3. Copies of the certified copies of the priority			tion from the
International Bureau (PCT Rule 17.2(a)		this national stage applica	
* Certified copies not received:	//·		
<ol> <li>Acknowledgment is made of a claim for domestic prioring reference was included in the first sentence of the special content.</li> </ol>			e a specific
(a) The translation of the foreign language provision	nal application has been received.		
<ol> <li>Acknowledgment is made of a claim for domestic prior in the first sentence of the specification or in an Application</li> </ol>	•	21 since a specific reference	ce was included
Applicant has THREE MONTHS FROM THE "MAILING DATI below. Failure to timely comply will result in ABANDONMEN			
<ol> <li>A SUBSTITUTE OATH OR DECLARATION must be s INFORMAL PATENT APPLICATION (PTO-152) which</li> </ol>			IOTICE OF
<ol> <li>CORRECTED DRAWINGS ( as "replacement sheets")</li> <li>(a)  including changes required by the Notice of Drafts</li> <li>1)  hereto or 2)  to Paper No</li> </ol>		PTO-948) attached	
(b) including changes required by the proposed drawi	ng correction filed, which h	as been approved by the E	xaminer.
(c) I including changes required by the attached Exami	iner's Amendment / Comment or in	the Office action of Paper I	No
Identifying indicia such as the application number (see 37 C each sheet. Replacement sheet(s) should be labeled as such	• • •	-	e back) of
9. DEPOSIT OF and/or INFORMATION about the datached Examiner's comment regarding REQUIREMENT FO	•		Note the
Attachment(s)			
<ul> <li>1 Notice of References Cited (PTO-892)</li> <li>2 Notice of Draftperson's Patent Drawing Review (PTO-94)</li> <li>3 Information Disclosure Statements (PTO-1449 or PTO/S Paper No</li> </ul>	8) 6 Interview Summ	al Patent Application (PTO nary (PTO-413), Paper No. endment/Comment	•
4☐ Examiner's Comment Regarding Requirement for Depos of Biological Material	it 8⊠ Examiner's Stat 9□ Other .	ement of Reasons for Allov	wance

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### **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Curtis on Dec. 10, 2003.

Mr. Curtis has authorized to cancel all the withdrawn claims 17-27.

## **DETAILED ACTION**

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Applicant cancelled claims 17-27.

# Allowable Subject Matter

Claims 1-16 are allowed.

### Reasons for Allowance

Claim 1 is allowed since there is no prior art teaches a reflector comprising non-spherical concave with maximum value of the inclination angle inclination being that of at least a first point along the periphery having a larger than inclination angle of a second point along the periphery.

Claim 10 is allowed since there is no prior teaches reflector comprising

- plurality of concave portions formed on a reflector surface,
- an inner surface of each of the concave portions <u>including a bottom curved</u>
   <u>surface and a peripheral curved surface</u>,
- the peripheral curved surface being a part of a first sphere having a first radius,
- the bottom curved surface being a second sphere having a second radius larger than the first radius, and the bottom curved surface being located within the peripheral curved surface,

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wherein <u>a normal line extending from a center of the first sphere</u> to the reflector surface and <u>a normal line extending from a center of the second sphere</u> to the reflector surface <u>are not collinear</u>.

Claims 2-9 and 11-16 are allowed since they depend on the allowed claim.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### **Conclusion**

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

Tanada (US 6199992 B1) discloses a reflector having a total-reflective or a semireflective reflecting surface, wherein the reflecting surface has a shape such that fine <u>concave</u> curves are arranged when viewed in cross section.

Van Duijneveldt (US5975722A) discloses a backlight luminaire with a reflector comprising a plurality of side-by-side <u>concave</u> sub-reflectors, said first and second lamps being arranged over said reflector, one of said first portions and one of said second portions being arranged side-by-side with respective said sub-reflectors.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HOAN C. NGUYEN whose telephone number is (703)

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306-0472. The examiner can normally be reached on MONDAY-THURSDAY:8:00AM-4:30PM.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0530.

HOAN C. NGUYEN Examiner Art Unit 2871

chn December 10, 2003

ROBERT H. KIM
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800